C L A I M S

1. Process to separate solids from a solids laden gaseous flow containing more than 100 mg/Nm^3 solids by performing the following steps:
(a) separating solids from the gaseous flow using a gas-solids separator resulting in a gaseous flow containing less than 50 mg/Nm^3 solids and an underflow comprising the separated solids and part of the gaseous flow as fed to the gas-solids separator;
(b) separating part of the solids from the underflow in a cyclone wherein solids and a gaseous flow containing still some solids are obtained; and
(c) contacting the gaseous flow obtained in step (b) with water to separate the solids and obtain a gaseous flow containing between 0 and 50 mg/Nm^3 solids; and
(d) combining the gaseous flows which are poor in solids as obtained in step (c) and as obtained in step (a).
2. Process according to claim 1, wherein the solids laden gaseous flow contains between 100 and 500 mg/Nm^3.
3. Process according to any one of claims 1-2, wherein the solids content in the gaseous flow as obtained in step (d) is between 10 and 50 mg/Nm^3 solids.
4. Process according to any one of claims 1-3, wherein the gas-solids separator is a multi-separator vessel comprising of a plurality of parallel operated cyclonic gas-solids separators.
5. Process according to any one of claims 1-4, wherein the ratio of mass of water to mass of gas contacted in step (c) is between 1.5 and 2.0.

6. Process according to any one of claims 1-5, wherein the solids content in the gas after contacting with water in step (c) is smaller than 50 mg/Nm^3.

7. Process according to claim 6, wherein the solids content in the gas after contacting with water in step (c) is between 0 to 5 mg/Nm^3.

8. Process according to any one of claims 1-7, wherein the gas flow containing less than 50 mg/Nm^3 solids as obtained in step (a) is fed to a gas expander turbine and wherein step (d) is performed downstream said gas expander turbine.

9. Process according to any one of claims 1-8, wherein the solids as obtained in step (b) are continuously fed to a collecting vessel, from which vessel the solids are discharged non-continuously to the environment via a lock-hopper vessel.